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CLAIM AMENDMENTS

1. (currently amended) A method for generating an output signal that comprises:
 - receiving samples of a source signal having spectral content;
 - applying a primary transform to overlapping segments of the samples to generate a plurality of sets of spectral coefficients, wherein each set of spectral coefficients has time-domain aliasing artifacts and represents the spectral content of a respective source signal segment for a set of frequencies;
 - ~~obtaining a plurality of spectral coefficients representing the same frequency in the set of frequencies from the plurality of sets of spectral coefficients and assembling the plurality of spectral coefficients into one or more blocks of spectral coefficients, wherein the number of spectral coefficients that are assembled in each of the one or more blocks is adapted in response to a block-length control signal;~~
 - generating one or more sets of hybrid-transform coefficients by applying a secondary transform to the one or more blocks of the spectral coefficients to generate one or more sets of hybrid-transform coefficients representing spectral content of the source signal for a particular frequency in the set of frequencies across time, wherein the number of spectral coefficients in each of the one or more blocks representing the particular frequency is adapted in response to a block-length control signal and the length of the secondary transform that is applied to each of the one or more blocks of spectral coefficients is adapted in response to the block-length control signal; and
 - assembling information representing the one or more sets of hybrid-transform coefficients and the block-length control signal into the output signal.
2. (original) The method according to claim 1 wherein the primary transform is a Modified Discrete Cosine Transform and the secondary transform is a Discrete Cosine Transform that is applied to blocks of spectral coefficients that do not overlap one another.
3. (previously presented) The method according to claim 2 that comprises:
 - generating a measure of similarity for spectral component magnitudes within a plurality of sets of spectral components; and
 - generating the block-length control signal in response to the measure of similarity.

4. (previously presented) The method according to claim 2 that comprises:
- analyzing samples of the source signal to generate a segment-length control signal;
 - and
 - applying an analysis window function to a segment of samples of the source signal, wherein shape or length of the analysis window function is adapted in response to the segment-length control signal.
5. (previously presented) The method according to any one of claims 1 through 4 wherein the primary transform has a set of basis functions and the method comprises adapting the set of basis functions in response to the segment-length control signal.
6. (currently amended) A method for generating an output signal that comprises:
- receiving an input signal that represents spectral content of a source signal;
 - obtaining one or more sets of hybrid-transform coefficients and a block-length control signal from the input signal;
 - applying an inverse secondary transform to the one or more sets of hybrid-transform coefficients to generate one or more blocks of spectral coefficients representing spectral content of the source signal for the same a particular frequency in a set of frequencies across time, wherein the number of hybrid-transform coefficients in each of the one or more sets of hybrid-transform coefficients is adapted in response to the block-length control signal and
 - the length of the inverse secondary transform that is applied to the sets of hybrid-transform coefficients is adapted in response to the block-length control signal;
 - assembling the spectral coefficients into sets of spectral coefficients, wherein each set of spectral coefficients has time-domain aliasing artifacts and represents the spectral content of a segment of the source signal for all frequencies in the set of frequencies;
 - applying an inverse primary transform to the sets of spectral coefficients to generate output signal segments that correspond to segments of the source signal, wherein the inverse primary transform substantially cancels the time-domain aliasing artifacts.
7. (original) The method according to claim 6 wherein the inverse primary transform is an Inverse Modified Discrete Cosine Transform and the inverse secondary transform is an Inverse

Discrete Cosine Transform that is applied to sets of hybrid-transform coefficients representing blocks of spectral coefficients that do not overlap one another.

8. (previously presented) The method according to claim 7 that comprises:
obtaining a segment-length control signal from the input signal; and
applying a synthesis window function to an output signal segment, wherein shape or length of the synthesis window function is adapted in response to the segment-length control signal.
9. (previously presented) The method according to any one of claims 6 through 8 wherein the inverse primary transform has a set of basis functions and the method comprises adapting the set of basis functions in response to the segment-length control signal.
10. (currently amended) An apparatus for generating an output signal that comprises:
(a) an input terminal;
(b) an output terminal; and
(c) signal processing circuitry coupled to the input terminal and the output terminal, wherein the signal processing circuitry is adapted to:
receive samples of a source signal having spectral content from the input terminal;
apply a primary transform to overlapping segments of the samples to generate a plurality of sets of spectral coefficients, wherein each set of spectral coefficients has time-domain aliasing artifacts and represents the spectral content of a respective source signal segment for a set of frequencies;
~~obtain a plurality of spectral coefficients representing the same frequency in the set of frequencies from the plurality of sets of spectral coefficients and assemble the plurality of spectral coefficients into one or more blocks of spectral coefficients, wherein the number of spectral coefficients that are assembled in each of the one or more blocks is adapted in response to a block-length control signal;~~
apply generate one or more sets of hybrid-transform coefficients by applying a secondary transform to the one or more blocks of the spectral coefficients to generate one or more sets of hybrid-transform coefficients representing spectral

content of the source signal for a particular frequency in the set of frequencies across time, wherein the number of spectral coefficients in each of the one or blocks representing the particular frequency is adapted in response to a block-length control signal and the length of the secondary transform that is applied to each of the one or more blocks of spectral coefficients is adapted in response to the block-length control signal; and

assemble information representing the one or more sets of hybrid-transform coefficients and the block-length control signal into the output signal that is sent to the output terminal.

11. (original) The apparatus according to claim 10 wherein the primary transform is a Modified Discrete Cosine Transform and the secondary transform is a Discrete Cosine Transform that is applied to blocks of spectral coefficients that do not overlap one another.

12. (previously presented) The apparatus according to claim 11 wherein the signal processing circuitry is adapted to:

generate a measure of similarity for spectral component magnitudes within a plurality of sets of spectral components; and
generate the block-length control signal in response to the measure of similarity.

13. (previously presented) The apparatus according to claim 11 wherein the signal processing circuitry is adapted to:

analyze samples of the source signal to generate a segment-length control signal; and
apply an analysis window function to a segment of samples of the source signal, wherein shape or length of the analysis window function is adapted in response to the segment-length control signal.

14. (previously presented) The apparatus according to any one of claims 10 through 13 wherein the primary transform has a set of basis functions and the signal processing circuitry adapts the set of basis functions in response to the segment-length control signal.

15. (currently amended) An apparatus for generating an output signal that comprises:
(a) an input terminal;
(b) an output terminal; and
(c) signal processing circuitry coupled to the input terminal and the output terminal, wherein the signal processing circuitry is adapted to:

receive an input signal that represents spectral content of a source signal from the input terminal;

obtain one or more sets of hybrid-transform coefficients and a block-length control signal from the input signal;

apply an inverse secondary transform to the one or more sets of hybrid-transform coefficients to generate one or more blocks of spectral coefficients representing spectral content of the source signal ~~for the same a particular frequency~~ in a set of frequencies across time, wherein the number of hybrid-transform coefficients in each of the one or more sets of hybrid-transform coefficients is adapted in response to the block-length control signal and the length of the inverse secondary transform that is applied to the sets of hybrid-transform coefficients is adapted in response to the block-length control signal;

assemble the spectral coefficients into sets of spectral coefficients, wherein each set of spectral coefficients has time-domain aliasing artifacts and represents the spectral content of a segment of the source signal for all frequencies in the set of frequencies; and

apply an inverse primary transform to the sets of spectral coefficients to generate output signal segments that correspond to segments of the source signal, wherein the inverse primary transform substantially cancels the time-domain aliasing artifacts and the output signal segments are sent to the output terminal.

16. (original) The apparatus according to claim 15 wherein the inverse primary transform is an Inverse Modified Discrete Cosine Transform and the inverse secondary transform is an Inverse Discrete Cosine Transform that is applied to sets of hybrid-transform coefficients representing blocks of spectral coefficients that do not overlap one another.

17. (previously presented) The apparatus according to claim 16 wherein the signal processing circuitry is adapted to:

obtain a segment-length control signal from the input signal; and

apply a synthesis window function to an output signal segment, wherein shape or length of the synthesis window function is adapted in response to the segment-length control signal.

18. (previously presented) The apparatus according to any one of claims 15 through 17 wherein the inverse primary transform has a set of basis functions and the signal processing circuitry adapts the set of basis functions in response to the segment-length control signal.

19. (currently amended) A medium recording a program of instructions that is executable by a device to perform a method for generating an output signal that comprises:

receiving samples of a source signal having spectral content;

applying a primary transform to overlapping segments of the samples to generate a plurality of sets of spectral coefficients, wherein each set of spectral coefficients has time-domain aliasing artifacts and represents the spectral content of a respective source signal segment for a set of frequencies;

~~obtaining a plurality of spectral coefficients representing the same frequency in the set of frequencies from the plurality of sets of spectral coefficients and assembling the plurality of spectral coefficients into one or more blocks of spectral coefficients, wherein the number of spectral coefficients that are assembled in each of the one or more blocks is adapted in response to a block-length control signal;~~

generating one or more sets of hybrid-transform coefficients by applying a secondary transform to the one or more blocks of the spectral coefficients to generate one or more sets of hybrid-transform coefficients representing spectral content of the source signal for a particular frequency in the set of frequencies across time, wherein the number of spectral coefficients in each of the one or blocks representing the particular frequency is adapted in response to a block-length control signal and the length of the secondary transform that is applied to each of the one or more blocks of spectral coefficients is adapted in response to the block-length control signal; and

assembling information representing the one or more sets of hybrid-transform coefficients and the block-length control signal into the output signal.

20. (previously presented) The medium according to claim 19 wherein the primary transform is a Modified Discrete Cosine Transform and the secondary transform is a Discrete Cosine Transform that is applied to blocks of spectral coefficients that do not overlap one another.

21. (previously presented) The medium according to claim 20, wherein the method comprises:

analyzing samples of the source signal to generate a segment-length control signal;
and

applying an analysis window function to a segment of samples of the source signal, wherein shape or length of the analysis window function is adapted in response to the segment-length control signal.

22. (currently amended) A medium recording a program of instructions that is executable by a device to perform a method for generating an output signal that comprises:

receiving an input signal that represents spectral content of a source signal;

obtaining one or more sets of hybrid-transform coefficients and a block-length control signal from the input signal;

applying an inverse secondary transform to the one or more sets of hybrid-transform coefficients to generate one or more blocks of spectral coefficients representing spectral content of the source signal for the same a particular frequency in a set of frequencies across time, wherein the number of hybrid-transform coefficients in each of the one or more sets of hybrid-transform coefficients is adapted in response to the block-length control signal and
the length of the inverse secondary transform that is applied to the sets of hybrid-transform coefficients is adapted in response to the block-length control signal;

assembling the spectral coefficients into sets of spectral coefficients, wherein each set of spectral coefficients has time-domain aliasing artifacts and represents the spectral content of a segment of the source signal for all frequencies in the set of frequencies;

applying an inverse primary transform to the sets of spectral coefficients to generate output signal segments that correspond to segments of the source signal, wherein the inverse primary transform substantially cancels the time-domain aliasing artifacts.

23. (previously presented) The medium according to claim 22 wherein the inverse primary transform is an Inverse Modified Discrete Cosine Transform and the inverse secondary transform is an Inverse Discrete Cosine Transform that is applied to sets of hybrid-transform coefficients representing blocks of spectral coefficients that do not overlap one another.

24. (previously presented) The medium according to claim 23, wherein the method comprises:

- obtaining a segment-length control signal from the input signal; and
- applying a synthesis window function to an output signal segment, wherein shape or length of the synthesis window function is adapted in response to the segment-length control signal.